Building Robots for Ocean Research - Multi-Media Campaign

Project Title	Building Robots for Ocean Research - Multi-Media Campaign
Project Summary	Building underwater robots for ocean exploration allows students the opportunity to apply STEM knowledge while exposing them to ocean careers. Create a campaign that encourages participation in this education project - share articles featuring these tools and their uses in the ocean workplace.
Country	United States
Country/Region of Focus	United States

Project Description

Gray's Reef National Marine Sanctuary (GRNMS) hosts an annual underwater robotics competition for k12-university students across the southeast. Participants are challenged to apply their science and engineering knowledge through building tools and techniques designed for working in the ocean environment. The Gray's Reef Southeast MATE ROV Competition, based in Savannah, GA, has offered this innovative STEM experience for students and teachers the past fifteen years.

Ocean sciences are central to mission operations as ROVs (remotely operated vehicles) are real tools used by ocean researchers and marine industries. Each year, these young entrepreneurs create an innovative robot that is built to perform specific tasks in an aquatic environment. This experiential educational program provides for a collaborative and hands-on project to develop an understanding of engineering and mathematics concepts while offering a place-based scientific research focus. Many of these simulated activities and operations are also the reality of underwater studies conducted by NOAA researchers in National Marine Sanctuaries and Monuments.

Learning about this innovative marine technology program and engaging the community in understanding the importance of robots for ocean conservation is a challenge. GRNMS seeks to develop a communications campaign that illuminates this field of study for a broader audience. Underwater robots like ROVs and AUVs are the future of ocean exploration, reaching depths and distances never before charted by man. Help us tell the story that these tools are providing about our cultural and ecological history on this ever changing and mostly unexplored ocean planet.

Required Skills or Interests

Skill(s)
Research
Social media management
Website design
Writing
Storytelling/blogging/vlogging

Additional Information

Do you love our ocean and want to inspire action for environmental protection? Are you passionate about science, engineering or experiential education? WE WANT YOU TO APPLY!
This virtual internship will include the following tasks -
Keep our regional competition website up-to-date and engaging:
http://graysreef.marinetech2.org/
Research articles and studies featuring technology that contributes to our knowledge about ocean health:
https://graysreef.noaa.gov/
Create and manage social media platforms, email list and web content to drive awareness and participation in GRNMS marine technology education programs.

Language Requirements

None